INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 2004/002367

A. CLASSIFICATION OF SUBJECT MATTER IPC?: HO4L, 2716, 12/28, 200F 0/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC?: HO4L, G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, XPIEE, XPESP, XPISE C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Clastion of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X. US 6081845 A (KANEMAKI et al.) 27 June 2000 (27.06.2000) 1-4, 14, 16-18 figures 1, 2, column 2, lines 19-60. 5-10 Y US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 5-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 (01.04.1998) the whole documents For their document stems of patent but published on or after the international filing date or priority claims relevance. For Column 1 specification or patent but published on or after the international filing date or priority claims or or other special restore (as specified) Columnate underly and the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the publication date of another claim(s) or which is cited to establish the public			PC	T/KR 2004/002367
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC': HO4L, G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, XPIEE, XPESP, XPI3E C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X. US 6081845 A (KANEMAKI et al.) 27 June 2000 (27.06.2000) figures 1, 2, column 2, lines 19-60. Y. US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A. EP 0833485 A1 (SONY CORPORATION) 1 April 1998 (01.04, 1998) the whole document. Distributed occuments are listed in the continuation of Box C. Secal attageness of sited documents: """ later document published site the international filing date or priority data and not in conflict with the application but cited to be of particular relevance; "E" existing application or parent but published on or after the international filing date or priority data and not in conflict with the application but cited to be comment of particular relevance; "E" existing application or parent but published on or after the international filing date or priority data and not in conflict with the application but cited to be comment of carent be considered to involve an inventive step when the document is taken alone invention of particular relevance; the claimed invention invention of particular relev	IPC': H04	L 12/16, 12/28, G06F 0/00	ational classification and IDC	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, XPIEE, XPESP, XPI3E C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X. US 6081845 A (KANEMAKI et al.) 27 June 2000 (27.06.2000) 1-4, 14, 16-18 figures 1, 2, column 2, lines 19-60. Y. US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 1, 18 EP 083485 A1 (SONY CORPORATION) 1 April 1998 1, 18 Further documents are listed in the continuation of Box C. * Special categories of clied document: "A" document defining the general state of the art which is not considered to be of particular relevance." ** Special categories of clied document: **Countered techning the general state of the art which is not considered to be of particular relevance. **E earlier application or patent but published on or after the international filing date or involved to the contraction and the considered not or cannot be considered to be of particular relevance; the chimned invention cannot be considered to involve an inventive step when the comment is taken alone invention flue principle or to the international filing date but later than the principle or to account be considered to involve an inventive step when the comment is taken alone invention many there who the comment is taken alone invention many there who the comment is unable to particular relevance; the chimned invention many there who the considered to involve an inventive step when the document is taken alone invention many there who the particular relevance; the chimned invention many the considered not or cannot be considered to involve an inventive step when the docume			incoming classification and IPC	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, XPIEE, XPESP, XPI3E C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	Minimum do IPC ⁷ : H04	ocumentation searched (classification system followed L, G06F	l by classification symbols)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	Documentati 	on searched other than minimum documentation to the	ne extent that such documents are	included in the fields searched
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6081845 A (KANEMAKI et al.) 27 June 2000 (27.06.2000) 1-4, 14, 16-18 figures 1, 2, column 2, lines 19-60. 5-10 Y US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 1, 18 EP 0833485 A1 (SONY CORPORATION) 1 April 1998 1, 18 The whole document: *A Special categories of cited documents: *A" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention calling date or priority date and not in conflict with the application duction of other called invention cannot be considered to invention document of particular relevance; the claimed invention cannot be considered not over anonable considered to vinve an inventive step when the document is taken alone "Course of the actual completion of the international filing date but later than the priority date claimed invention cannot be considered not over an onable considered to invention cannot be considered to invention cannot be considered to relevance; the claimed invention cannot be considered not over cannot be considered	Electronic da WPI, EPC	ata base consulted during the international search (nar DDOC, XPIEE, XPESP, XPI3E	ne of data base and, where practic	able, search terms used)
X US 6081845 A (KANEMAKI et al.) 27 June 2000 (27.06.2000) 1-4, 14, 16-18 figures 1, 2, column 2, lines 19-60. 5-10 Y US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 1, 18 (01.04,1998) the whole document: "A" document defining the general state of the art which is not considered to be of particular relevance, the chiaded investion of comment defining the general state of the art which is not considered to be of particular relevance, the chiaded investion filling date or priority claim(s) or which is cited to establish the publication date of another citation or other scied to establish the publication date of another citation or other mass "P" document published prior to the international filling date but later than the priority date claimed investion cannot be considered novivo cannot be considered novivo an inventive step when the document is taken alone document of particular relevance, the chiaded investion cannot be considered novivo an inventive step when the document is taken alone document of particular relevance, the chiaded invention cannot be considered novivo an inventive step when the document is taken alone document of particular relevance, the chiaded invention cannot be considered novivo an inventive step when the document is taken alone document of particular relevance, the chiaded invention cannot be considered novivo an inventive step when the document is taken alone """ document referring to an oral disclosure, use, exhibition or other means """ document published prior to the international filling date but later than the priority date claimed invention cannot be considered novivo or another citation or other such course of particular relevance, the chiaded invention cannot be considered novivo or another invention	C. DOCUN	MENTS CONSIDERED TO BE RELEVANT .		
Y US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 (01.04.1998) the whole document: Special categories of cited document: "A" document defining the general state of the art which is not considered to be of particular relevance: "Sepicial categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance: "Ce suffice application or patent but published on or after the international filing date "Y" document defining the general state of the art which is not considered to understand the principle or theory underlying the invention cannot be considered to involve an invention and the considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or other means "P" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document published prior to the international filing date but later than the priority date claimed "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international search the priority date claimed invention cannot be considered to involve an inventive step when the document is stem alone with one or more other such documents, such combination being obvious to a person skilled in the at "&" document member of the same patent family Date of the actual completion of the international search 13 October 2005 (13.10.2005) Name and mailing address of the ISA/AT Austrian Patent Office Dreschner Straße 87, A-1200 Vienna	Category*	Citation of document, with indication, where a	appropriate, of the relevant passag	es Relevant to claim No.
Y US 5708654 A (ARNDT et al.) 13 January 1998 (13.01.1998) figures 1-5, column 3, line 65 - column 4, line 53, column 5, lines 29-50. A EP 0833485 A1 (SONY CORPORATION) 1 April 1998 1, 18 (01.04.1998) the whole document. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention clining date. "E" cartler application or patent but published on or after the international filing date. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specifier and disclosure, use, exhibition or other means. "P" document referring to an oral disclosure, use, exhibition or other means. "P" document published prior to the international filing date to involve an inventive step when the priority date claimed "O" document referring to an oral disclosure, use, exhibition or other means. "P" document published prior to the international filing date to involve an inventive step when the tep priority date claimed "O" document referring to an oral disclosure, use, exhibition or other means. "P" document published prior to the international filing date but later than the priority date claimed "O" document internation alone of the involve an inventive step when the considered to involve an inventive step when the document, such combination being obvious to a person skilled in the art "E" columnation being obvious to a person skilled in the art "E" document member of the same patent family Date of the actual completion of the international search report 20 October 2005 (20.10.2005) Name and mailing address of the ISA/ AT Authorized officer ENGLISCH M.		US 6081845 A (KANEMAKI et al.) 2 figures 1, 2, column 2, lines 19-60.	7 June 2000 (27.06.2000	
(01.04.1998) the whole document. See patent family annex. See patent family annex. See patent family annex. "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed invention and inventive step when the document is tombined with one or more other such documents; such combination being obvious to a person skilled in the art "&" document member of its same patent family Date of the actual completion of the international search 13 October 2005 (13.10.2005) Name and mailing address of the ISA/ AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna		figures 1-5, column 3, line 65 - colum	anuary 1998 (13.01.1998) n 4, line 53, column 5, lin	5-10
**Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 13 October 2005 (13.10.2005) Name and mailing address of the ISA/AT Austrian Patent Office Dreschner Straße 87, A-1200 Vienna "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skilled in the art "E" addressed to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document member of the same patent family Date of mailing of the international search report 20 October 2005 (20.10.2005) Authorized officer ENGLISCH M.	А	(01.04.1998)	ION) 1 April 1998	1, 18
to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 13 October 2005 (13.10.2005) Name and mailing address of the ISA/ AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna	☐ Further o	documents are listed in the continuation of Box C.	See patent family anne	x.
Date of the actual completion of the international search 13 October 2005 (13.10.2005) Date of mailing of the international search 20 October 2005 (20.10.2005) Authorized officer ENGLISCH M.	"A" documento be of presented a filing dat documento special results of the comment of the comme	t defining the general state of the art which is not consider particular relevance opticular or patent but published on or after the internation of the which may throw doubts on priority claim(s) or which establish the publication date of another citation or other ason (as specified) to referring to an oral disclosure, use, exhibition or other the published prior to the international filing date but later the	al priority date and not in c to understand the princip to understand the princip al "X" document of particular cannot be considered nov an inventive step when the er "Y" document of particular cannot be considered to document is combined documents, such combin skilled in the art	conflict with the application but cited le or theory underlying the invention relevance; the claimed invention rel or cannot be considered to involve the document is taken alone relevance; the claimed invention involve an inventive step when the with one or more other such mation being obvious to a person
Austrian Patent Office ENGLISCH M. Dresdner Straße 87, A-1200 Vienna			Date of mailing of the internati	onal search report
		Austrian Patent Office		SCH M.
	Facsimile No	o. +43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 53	4 24 / 565

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern al application No. PC1/KR 2004/002367

Patent document cited in search report			Publication date	Patent family member(s)		Publication date	
BP A	A	833485		DE	т2	69729040T	2005-04-28
				US	B1	6438607	2002-08-20
				US	Bl	6542510	2003-04-01
				US	Α	5978854	1999-11-02
				EP	A1	0833485	1998-04-01
				EP	A2	1161058	2001-12-05
ŪS	A	5708654	1998-01-13			none	
US	A	6081845	2000-06-27	JP	A	10262057	1998-09-29